

Condition	Saline Vehicle			
Event class	High-voltage spindles		Isolated hyperpolarizations	
Genotype	D1-Cre	A2A-Cre	D1-Cre	A2A-Cre
Number of mice	3	3	3	3
Number of events	344	128	516	465
FWHM (ms)	120 ± 20	140 ± 20	150 ± 30	145 ± 30
Amplitude (% $\Delta F/F$)	0.75 ± 0.2	0.7 ± 0.3	0.55 ± 0.2	0.65 ± 0.35
Autocorrelation period (ms)	230 ± 40	280 ± 60	300 ± 80	310 ± 80
Autocorrelation coefficient at first maximum	0.5 ± 0.2	0.40 ± 0.2	0.20 ± 0.2	0.25 ± 0.2
Inter-event cross-correlation coefficient (TEMPO)	0.90 ± 0.15	0.80 ± 0.15	0.80 ± 0.1	0.80 ± 0.1
Inter-event cross-correlation coefficient (LFP)	0.3 ± 0.3	0.3 ± 0.3	0.25 ± 0.3	0.20 ± 0.3
Temporal offset (ms)	89 ± 3	91 ± 5	109 ± 3	110 ± 4
Phase offset (degrees)	132 ± 4	128 ± 4	N.A.	N.A.
LFP peak-to-peak amplitude (μV)	380 ± 10	350 ± 10	365 ± 10	340 ± 10
EEG peak-to-peak amplitude (μV)	380 ± 10	320 ± 10	310 ± 10	310 ± 15
Event rate (peaks/min)	5 ± 0.5	5 ± 0.5	18 ± 1	21 ± 1
Correlation between locomotion and time since saline injection.	$r = -0.020 \pm 0.11$			
Correlation between 3-5 Hz LFP power and time since saline injection.	$r = 0.10 \pm 0.03$			
Correlation between 3-5 Hz TEMPO power and time since saline injection.	$r = 0.028 \pm 0.025$			
Correlation between high-voltage spindle rate and time since saline injection.	$r = -0.13 \pm 0.23$			
Correlation between isolated hyperpolarization rate and time since saline injection.	$r = -0.14 \pm 0.23$			

Condition	D1-antagonism (SCH 23390)			
Event class	High-voltage spindles		Isolated hyperpolarizations	
Genotype	D1-Cre	A2A-Cre	D1-Cre	A2A-Cre
Number of mice	3	3	3	3
Number of events	101	84	386	734
FWHM (ms)	130 ± 20	140 ± 30	135 ± 20	160 ± 30
Amplitude (% $\Delta F/F$)	0.60 ± 0.2	0.55 ± 0.2	0.50 ± 0.2	0.85 ± 0.35
Autocorrelation period (ms)	270 ± 65	310 ± 55	310 ± 70	350 ± 65
Autocorrelation coefficient at first maximum	0.40 ± 0.2	0.40 ± 0.1	0.25 ± 0.25	0.30 ± 0.15
Inter-event cross-correlation coefficient (TEMPO)	0.80 ± 0.15	0.85 ± 0.1	0.80 ± 0.1	0.90 ± 0.1
Inter-event cross-correlation coefficient (LFP)	0.3 ± 0.3	0.45 ± 0.3	0.20 ± 0.3	0.40 ± 0.4
Temporal offset (ms)	90 ± 7	96 ± 4	84 ± 2	116 ± 4
Phase offset (degrees)	91 ± 10	107 ± 5	N.A.	N.A.
LFP peak-to-peak amplitude (μV)	390 ± 10	440 ± 20	370 ± 10	290 ± 20
EEG peak-to-peak amplitude (μV)	375 ± 10	410 ± 20	330 ± 10	400 ± 10
Event rate (peaks/min)	7.2 ± 0.5	5.0 ± 0.5	26 ± 1	46 ± 2
Correlation between locomotion and time since D1-antagonist injection.	$r = 0.014 \pm 0.14$			
Correlation between 3-5 Hz LFP power and time since D1-antagonist injection.	$r = 0.043 \pm 0.03$			
Correlation between 3-5 Hz TEMPO power and time since D1-antagonist injection.	$r = 0.060 \pm 0.03$			
Correlation between high-voltage spindle rate and time since D1-antagonist injection.	$r = 0.043 \pm 0.14$			
Correlation between isolated hyperpolarization rate and time since D1-antagonist injection.	$r = 0.027 \pm 0.14$			

Condition	D2-antagonism (Haloperidol)			
Event class	High-voltage spindles		Isolated hyperpolarizations	
Genotype	D1-Cre	A2A-Cre	D1-Cre	A2A-Cre
Number of mice	3	3	3	3
Number of events	143	276	490	482
FWHM (ms)	120 ± 20	140 ± 20	125 ± 25	145 ± 25
Amplitude (% $\Delta F/F$)	0.8 ± 0.3	0.60 ± 0.2	0.55 ± 0.3	0.65 ± 0.3
Autocorrelation period (ms)	245 ± 40	290 ± 80	280 ± 70	320 ± 55
Autocorrelation coefficient at first maximum	0.40 ± 0.2	0.5 ± 0.2	0.20 ± 0.2	0.30 ± 0.2
Inter-event cross-correlation coefficient (TEMPO)	0.85 ± 0.1	0.90 ± 0.1	0.80 ± 0.1	0.85 ± 0.1
Inter-event cross-correlation coefficient (LFP)	0.40 ± 0.3	0.55 ± 0.3	0.25 ± 0.3	0.35 ± 0.4
Temporal offset (ms)	71 ± 5	75 ± 2	120 ± 5	86 ± 3
Phase offset (degrees)	89 ± 6	92 ± 3	N.A.	N.A.
LFP peak-to-peak amplitude (μV)	420 ± 20	360 ± 20	360 ± 10	300 ± 20
EEG peak-to-peak amplitude (μV)	380 ± 10	390 ± 10	320 ± 10	370 ± 20
Event rate (peaks/min)	8.5 ± 0.5	12 ± 0.5	17 ± 1	22 ± 1
Correlation between locomotion and time since D2-antagonist injection	$r = -0.32 \pm 0.11$			
Correlation between 3-5 Hz LFP power and time since D2-antagonist injection.	$r = 0.061 \pm 0.03$			
Correlation between 3-5 Hz TEMPO power and time since D2-antagonist injection.	$r = 0.060 \pm 0.03$			
Correlation between high-voltage spindle rate and time since D2-antagonist injection.	$r = 0.023 \pm 0.12$			
Correlation between isolated hyperpolarization rate and time since D2-antagonist injection.	$r = 0.087 \pm 0.12$			